

IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently amended) A method of removing produced fluid from a well producing both gas and liquid, the method comprising:

~~utilizing produced gas flowing from a formation to power a produced liquid pump, operating a produced liquid pump by flowing produced gas through a drive member of the pump,~~ wherein the formation supplies the produced liquid and the produced gas; and

carrying the produced liquid from the pump and the produced gas towards surface in separate fluid streams.

2. (Original) The method of claim 1, further comprising co-mingling the separate fluid streams.

3. (Original) The method of claim 2, wherein the fluid streams are co-mingled below a sub-surface safety valve.

4. (Original) The method of claim 2, further comprising restricting the gas stream before co-mingling the separate gas and liquid streams.

5. (Original) The method of claim 1, comprising running the pump and a conduit into an existing well bore.

6. (Original) The method of claim 1, wherein the produced gas comprises natural gas.

7. (Original) The method of claim 1, wherein the produced liquid comprises water.

8. (Original) The method of claim 1, wherein the produced liquid comprises oil.

9. (Original) The method of claim 1, wherein produced liquid is drawn from a lower portion of the well bore.

10. (Original) The method of claim 1, further comprising separating produced liquid from produced gas, and then pumping the separated produced liquid towards surface.

11. (Original) The method of claim 10, wherein the separated produced liquid flows downwards to a sump, from which the liquid is drawn by the pump.

12. (Previously Presented) The method of claim 1, further comprising utilizing the produced gas to drive at least two produced liquid pumps.

13. (Cancelled)

14. (Original) The method of claim 12, wherein the at least two produced liquid pumps are connected in series.

15. (Previously Presented) The method of claim 1, comprising utilizing the produced gas flowing adjacent the pump to power the pump.

16. (Previously Presented) The method of claim 15, comprising utilizing the produced gas to drive a turbine.

17. (Original) The method of claim 16, comprising mechanically coupling the turbine to the pump.

18. - 21 (Cancelled)

22. (Original) The method of claim 1, further comprising:

pumping gas into the well to force liquid lying in the well back into the formation; then

allowing gas to flow from the formation to drive the pump.

23. (Original) The method of claim 1, further comprising pumping gas into the well to displace liquid in the well towards surface.

24. (Original) The method of claim 1, further comprising retrieving the pump and a conduit from the well bore.

25-26. (Cancelled)

27. (Currently amended) A method of bullheading a gas producing well containing liquid, the method comprising:

pumping gas into a well to displace liquid lying in the well towards surface;

allowing produced gas to flow from the formation and operating a produced liquid pump by flowing the produced gas through a drive member of the pump power a liquid pump once the level of liquid in the well has fallen below a predetermined level; and

carrying gas and liquid from the pump towards surface in separate fluid streams.

28. (Previously Presented) Apparatus for location in a well bore for use in removing produced fluid from a well producing both gas and liquid, the apparatus comprising:

a produced liquid pump for location in a well bore and adapted to be powered by produced gas flowing from a producing formation;

a stinger for extending into a lower portion of the well; and

a conduit for carrying produced liquid from the pump towards surface.

29. (Original) The apparatus of claim 28, further comprising means for co-mingling produced liquid from the conduit with gas in the well bore.

30. (Original) The apparatus of claim 28, wherein the means for co-mingling produced liquid from the conduit with gas in the well bore comprises a restriction in the bore adjacent an upper end of the produced liquid conduit.

31. (Cancelled)

32. (Original) The apparatus of claims 28, further comprising a separator for separating produced liquid from produced gas.

33. (Original) The apparatus of claim 32, wherein the separator is a cyclone separator.

34. (Original) The apparatus of claim 28, wherein the produced liquid pump is a reciprocal piston pump.

35. (Original) The apparatus of claim 34, further comprising at least two one-way valves, allowing liquid to be drawn into and then pumped from the pump.

36. (Original) The apparatus of claim 28, wherein the produced liquid pump is a rotary pump.

37. (Original) The apparatus of claims 28, further comprising a turbine for driving the produced liquid pump.

38. – 42. (Cancelled)

43. (Original) The apparatus of claim 28, comprising a turbine for converting the kinetic energy of the produced gas to mechanical power.

44. (Original) The apparatus of claim 43, wherein the turbine is mechanically coupled to the produced liquid pump.

45. (Original) The apparatus of claim 43, further comprising a generator for coupling to an output of the turbine.

46. (Original) The apparatus of claim 43, further comprising means for generating electrical energy from the mechanical power output from the turbine, and an electric motor for driving the produced liquid pump.

47. (Original) The apparatus of claim 43, wherein the turbine is adapted for location on the well adjacent the produced liquid pump.

48. (Original) The apparatus of claim 43, wherein the turbine is adapted for location in the well remote from the produced liquid pump.

49. (Original) The apparatus of claim 28, wherein the conduit for carrying the produced liquid is a macaroni string.

50. (Original) The apparatus of claim 28, wherein the pump further comprises means for selectively activating and deactivating the pump.

51. (Original) The apparatus of claim 50, wherein the means for activating and deactivating the pump comprises a drive coupling between the pump and a turbine.

52. (Cancelled)

53. (Original) The apparatus of claims 28, further comprising at least one further produced liquid pump for location in the well bore and adapted to be powered by produced gas.

54. (Cancelled)

55. (Original) The apparatus of claim 53, wherein the produced liquid pumps are connected in series.

56. – 71 (Cancelled)

72. (Previously Presented) A method of removing produced fluid from a well producing both gas and liquid, the method comprising:

utilizing produced gas flowing from a formation to drive at least two produced liquid pumps, wherein the at least two produced liquid pumps are connected in parallel; and

carrying the produced liquid from the pumps and the produced gas towards surface in separate fluid streams.

73. (Previously Presented) An apparatus for location in a well bore for use in removing produced fluid from a well producing both gas and liquid, the apparatus comprising:

a produced liquid pump for location in a well bore and adapted to be powered by produced gas flowing from a producing formation, wherein the pump is provided in combination with a gearbox; and

a conduit for carrying produced liquid from the pump towards surface.

74. (Previously Presented) The apparatus of claim 73, wherein the gearbox is a harmonic drive gearbox.

75. (Previously Presented) The apparatus of claim 73, wherein the gearbox is co-axial with a turbine for driving the produced liquid pump.

76. (Previously Presented) An apparatus for location in a wellbore for use in removing produced fluid from a well producing both gas and liquid, the apparatus comprising:

a produced liquid pump for location in a well bore and adapted to be powered by produced gas flowing from a producing formation wherein the pump is a reciprocating pump;

a mechanism for converting a rotary drive to reciprocal motion; and

a conduit for carrying produced liquid from the pump towards surface.

77. (Previously Presented) The apparatus of claim 76, wherein the mechanism for converting rotary drive to reciprocal motion comprises a series of selectively rotatable and axially movable cams mounted about a mandrel.

78. (Previously Presented) An apparatus for location in a well bore for use in removing produced fluid from a well producing both gas and liquid, the apparatus comprising:

a produced liquid pump for location in a well bore and adapted to be powered by produced gas flowing from a producing formation;

a magnetic drive coupling between the pump and a turbine for selectively activating and deactivating the pump; and

a conduit for carrying produced liquid from the pump towards surface.

79. (Previously Presented) Apparatus for location in a well bore for use in removing produced fluid from a well producing both gas and liquid, the apparatus comprising:

a first produced liquid pump for location in a well bore and adapted to be powered by produced gas flowing from a producing formation;

a second produced liquid pump for location in the well bore and adapted to be powered by produced gas, wherein the produced liquid pumps are connected in parallel; and

a conduit for carrying produced liquid from the pump towards surface.

80. (Currently amended) A method of kicking off a gas-producing well containing a liquid, the method comprising:

pumping a gas into the well to force the liquid lying in the well back into a formation;

allowing the gas and a produced gas to flow from the formation and operating a produced liquid pump by flowing the gas and the produced gas through a drive member of the pump to power a liquid pump; and

carrying gas, and liquid from the pump, towards surface in separate fluid streams.

81. (Previously Presented) The method of claim 80, further comprising co-mingling the separate fluid streams.